

# Technical Session for Municipal Councillors

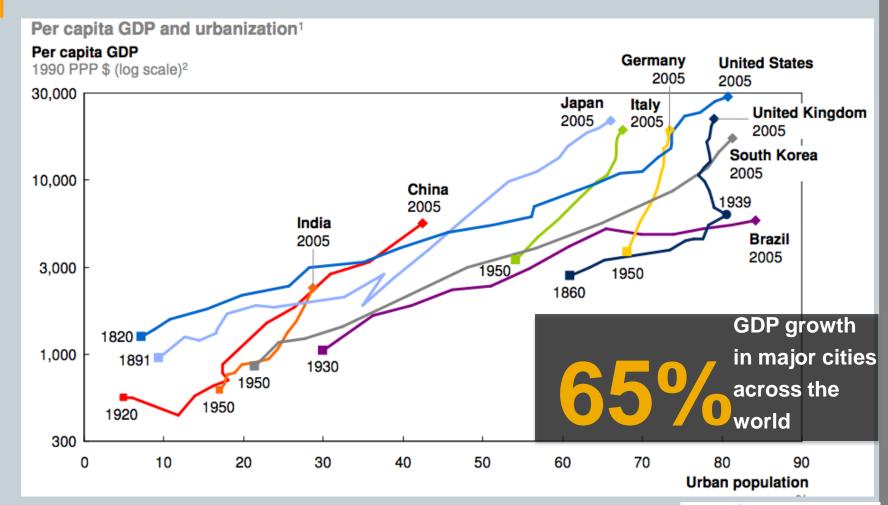
New Emerging Trends in Parking

**UMI 2016- 11th November 2016** 

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26-11-2016

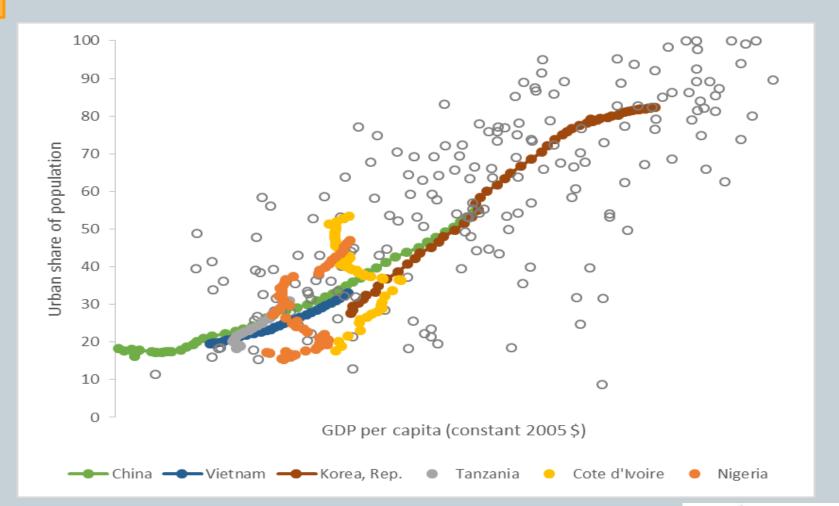
# Cities are engines of growth and prosperity







# Urbanization usually goes hand-in-hand with growth, but not always

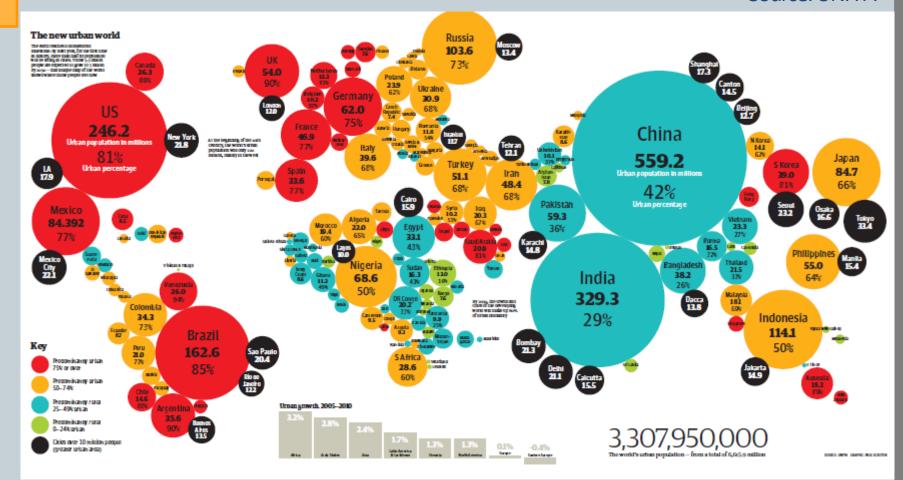






#### **Global Urbanization-2010**

Source: UNFPA

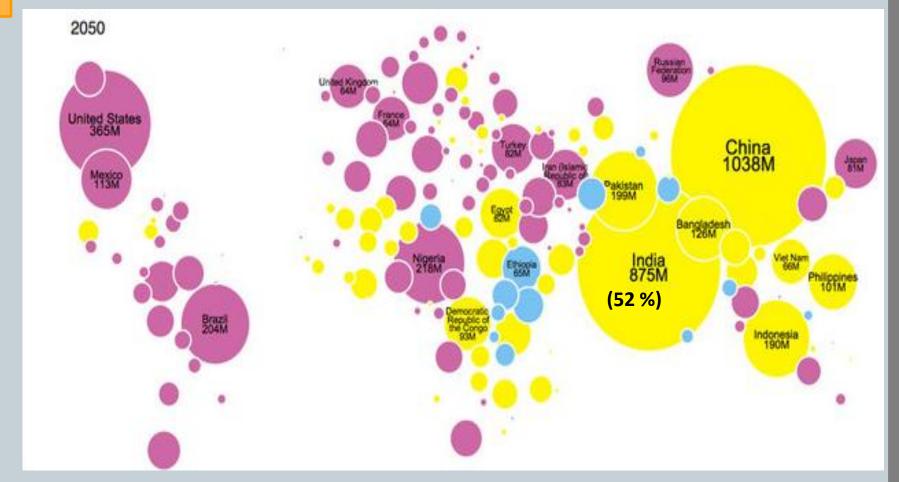






#### **Global Urbanization-2050**

Source: UNICEF



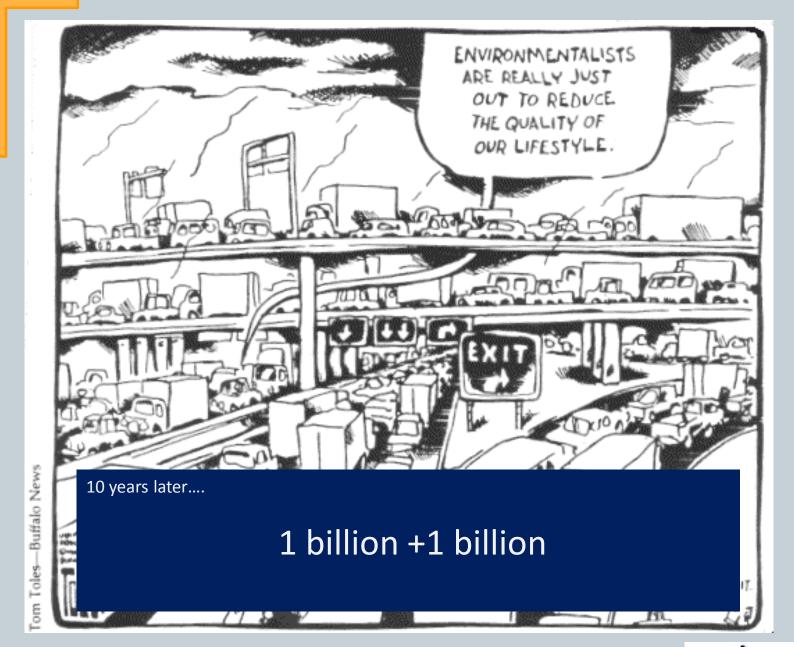








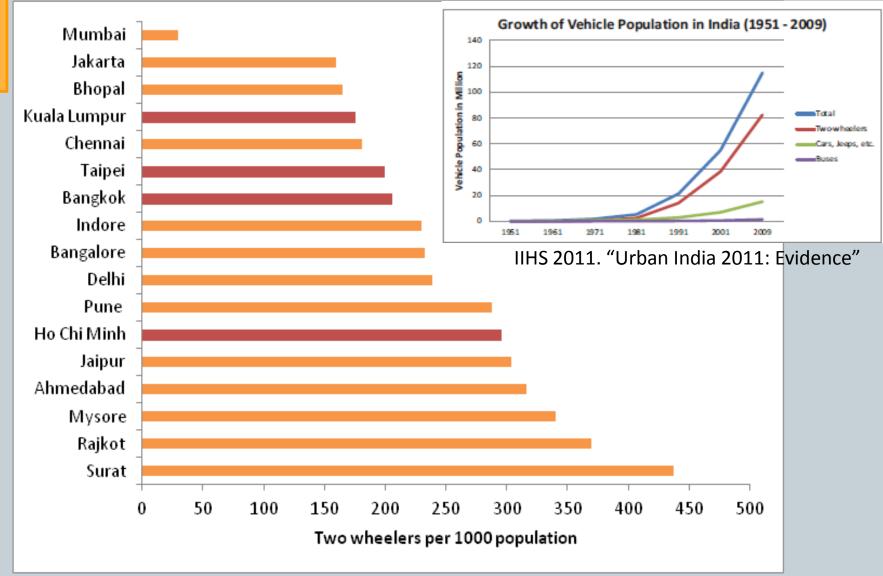








#### Urbanization is coupled with motorization







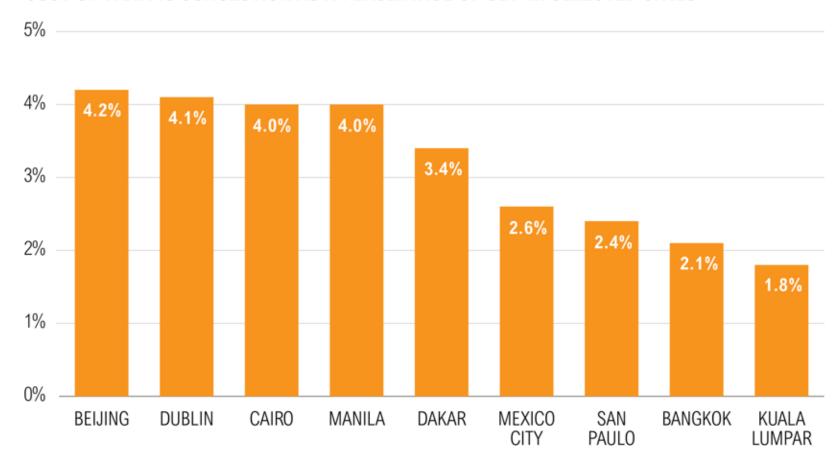
#### **Congestion in cities**



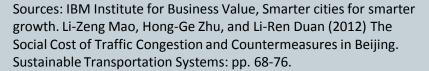


#### Traffic congestion impacts productivity

#### COST OF TRAFFIC CONGESTION AS A PERCENTAGE OF GDP IN SELECTED CITIES

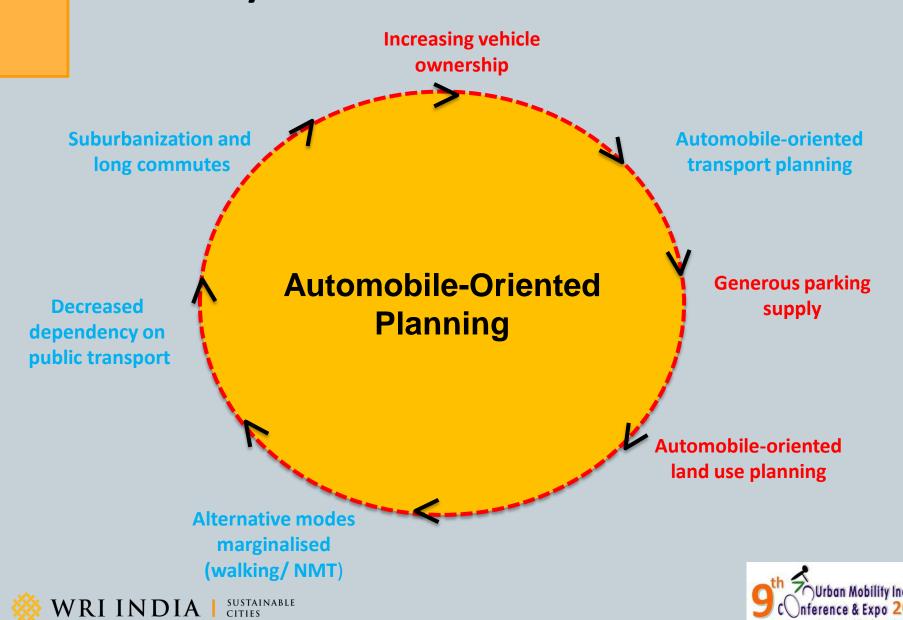








#### Vicious cycle



#### **Current approach...**

- > Ineffective management of on-street parking
- Provide enough supply to cater to demand
- Create multi-level car parking lots





#### Streets turning into parking lots...



Photo Credit: EMBARQ India





#### Parking lots are full...







#### Multi level parking lots are unused

#### Parking lots are empty and free-forall on road

Risha Chitlangial TNN I Aug 11, 2015, 07.18 AM IST





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You are here: Home >> English News & Features >> City-Indore

Multi-level parking: IMC undeterred by failure

DNIND11042 | 6/14/2012 | Author : DNA Correspondent | WC :238

### DDA multi-level parking lots have no takers

orbit Mail, near Zoo, bening Mangai Oity snopping mail and two other spots. TenderSare approved for 4 spots and for remaining two spots tenders will be floated soon. Around three years ago, the IMC had started multi-level parking in 20 crowded markets under JNNURM to decongest traffic. Four sites were selected for the project at Subbash Chowk Shivaii Market, poor Browsukh cinema at Jawahar Mara and

Photo Credit: Google Images





#### We need to rethink parking

- Parking plays an important role in shaping our cities
  - Parking can incentivize private transport demand
  - Effective parking can be used for demand management
- There is a disruption happening in the transport industry





#### Innovation in shared mobility





Shared mobility is changing the ownership and usage of private vehicles



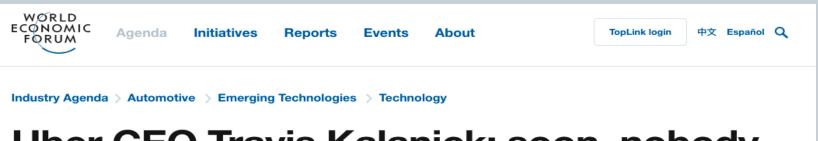


#### Impact of shared mobility

### Anand Mahindra says Uber, Ola could eat into auto sales

PTI | Pune, September 11, 2015 | UPDATED 11:28 IST



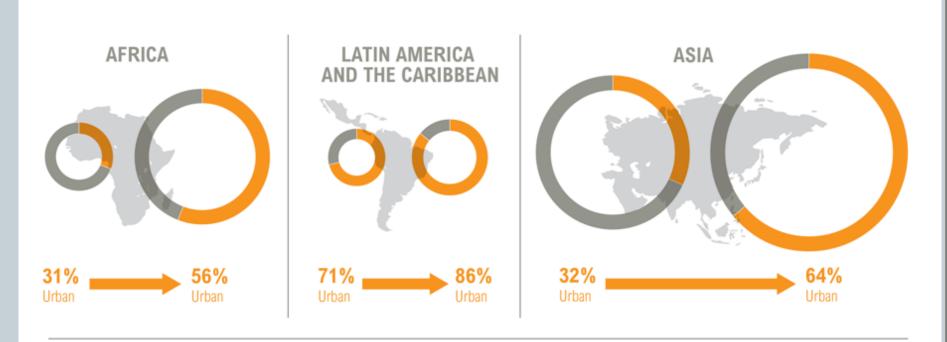


### Uber CEO Travis Kalanick: soon, nobody will own a car





### 60% of the 2030 global building stock is yet to be built

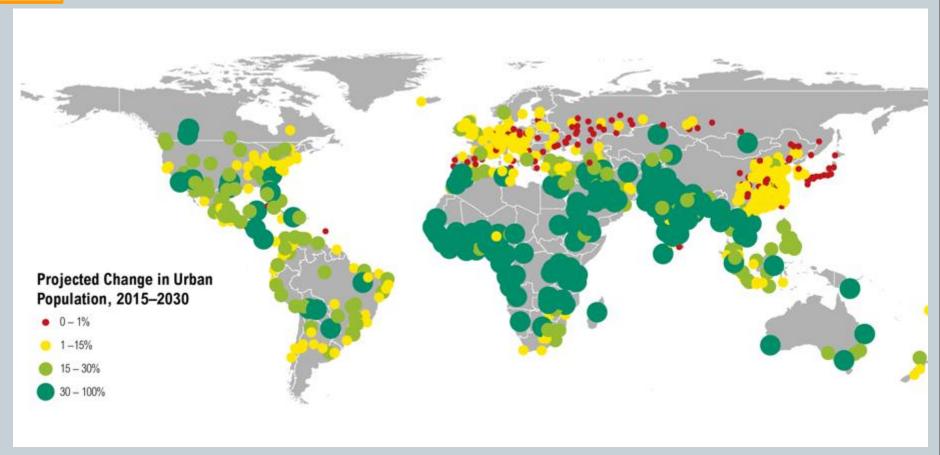


Percent Population in Urban Areas **1990**Percent Population in Ubran Areas **2050** 





## Growth mostly in Africa and South Asia (2015-2030)



(N=769 cities)

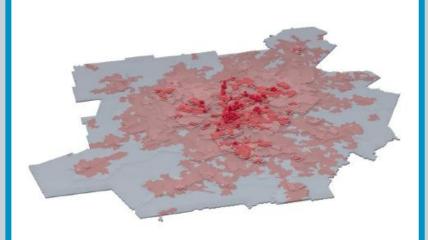




#### **Compact cities: healthier and safer**

#### **ATLANTA**

#### Atlanta's built-up area



0 20 Kilometers

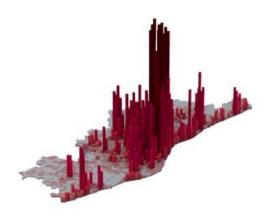
Population: 5.26 million Total area: 16,605 km<sup>2</sup> Urban area: 7692 km<sup>2</sup>

Transport emissions: 6.9 tonnes CO2 p.c.

Traffic fatalities: 564 per year

#### **BARCELONA**

#### Barcelona's built-up area



0 20 Kilometers

Population: 5 million Total area: 3263 km<sup>2</sup> Urban area: 648 km<sup>2</sup>

Transport emissions: 1.2 tonnes CO2 p.c.

Traffic fatalities: 31 per year

Source: LSE research, drawing on data from Atlanta Regional Commission (2014), Autoritat del Transport Metropolita (Area de Barcelona) (2013), GenCat (2013), UCSB (2014), D'Onofrio (2014), based on latest data.

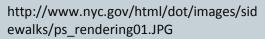




# Alternative solutions for sustainable urban transport

- Pedestrian and bicycles
- Public transportation
- Transit oriented development
- Disincentives car use
- Cleaner and cooler fuels and vehicles







#### The ways forward...

- Urgent need to address parking in Indian cities
- Incremental approach is desirable
- Shift from parking minimum to parking maximum
- Use parking as revenue generation mechanism to support suitable transport
- Focus on on-street parking
- Look at off-street parking through Development Control Regulations (DCRs), TODs and urban form





### **Thank You**

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